SERVICE MANUAL Sm-10

Since only the unidentical parts between the original model are listed, please use this manual (Flysheet) with the original model Ma-5 (F version) service manual accordingly.

Different Parts between MODEL Ma-5 (F) and MODEL Sm-10 (E).

Original Model Ma-5 Page 9

REF. DESIG.	Q'TY F	Q'TY E	MODEL Ma-5 (F) PART NO.	MODEL Sm-10 (E) PART NO.	DESCRIPTION
A	1	1	2142063400	209H063400	Front Panel Assembly
001B	1	1	2142063012	209H063010	Escutcheon Front Panel
002B	2	2	2142158012	209H158030	Window
025B		1		209H063020	Escutcheon
026B		4		51490308A9	L. Washer Screw
015B	1	1	2461253110	2461253210	Handle
022B		4		2461107020	Sheet

Original Model Ma-5 Page 10

REF. DESIG.	Q'TY F	Q'TY E	MODEL Ma-5 (F) PART NO.	MODEL Sm-10 (E) PART NO.	DESCRIPTION
004F	1	1	51280308B0	209H160040	Bracket
005F		2		51280308B0	B.H. Tapped Screw B3 x 8
006F		2		2276005050	Clamper
008F	1		2142056010		Buffer
009F	1		2142118010		Spacer
010F	2		5134031080		F.H. Tapped Screw F3 x 10

Original Model Ma-5 Page 11

REF. DESIG.	Q'TY F	Q'TY E	MODEL Ma-5 (F) PART NO.	MODEL Sm-10 (E) PART NO.	DESCRIPTION
008G	2		51470408B9		L. Washer Screw L4 x 8
010G		3		51100306E9	B.H.M. Screw B3 x 6
012G		3		62040029W0	Lug
014G		3		54050400R0	T.L. Washer
022G		1		2142160070	Bracket
023G		1		51280308B0	B.H. Tapped Screw B3 x 8
L001	1	1	TS19611030	TS19611070	Power Transformer
W005		1		YC00700030	AC Power Cord

N.B. Following precautions should be used when putting order for service manual:

(1) The original Service manual will not be delivered if the P/N 209H855020 (Flysheet) is used for ordering.

(2) When comprehensive manual are required, please use both P/N of 2142855110 (Original) and 209H855020 (Flysheet) simultaneously.

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1980/9

Original Model Ma-5 Page 12

REF. DESIG.	Q'TY F	Q'TY E	MODEL Ma-5 (F) PART NO.	MODEL Sm-10 (E) PART NO.	DESCRIPTION
001E	1	1	2142160210	209H160230	Bracket Rear Panel (L) Ch
001E		1		209H160240	Bracket Rear Panel (R) Ch
003E	2	2	51280310U0	51280308U0	B.H. Tapped Screw B3 x 8
017E	1	1	62030049W0	62040029W0	Lug
F001	1	1	FS10400020	FS10200600	Fuse 4A 250V
J001	1	1	YJ08000300	YJ08000230	Jack Fuse Holder
W001	1	1	YC02400180	YC01900030	AC Power Cord
R013		1		GD05100140	Resistor 10Ω 0.25W

Original Model Ma-5 Page 13

REF. DESIG.	Q'TY F	Q'TY E	MODEL Ma-5 (F) PART NO.	MODEL Sm-10 (E) PART NO.	DESCRIPTION
002D	6	6	51280306U0	5128030620	B.H. Tapped Screw B3 x 6
004D	1	1	2142257010	2142257110	Lid. Buttom Cover (L) Ch
004D		1		209H257120	Lid. Bottom Cover (R) Ch
008D	4	4	51570410S0	51570420S0	P.T. Screw P4 x 20
009D		1		51280406U0	B.H. Tapped Screw B4 x 6
010D		2		2991259010	Bushing

Original Model Ma-5 Page 13 (cont.)

REF. DESIG.	Q'TY F	Q'TY E	MODEL Ma-5 (F) PART NO.	MODEL Sm-10 (E) PART NO.	DESCRIPTION
001L	2	2	2142267040	2142267140	Heatsink Left
001L		2		2142267140	Heatsink Right
002L		1		209H267010	Heatsink Right
002L		1		209H267110	Heatsink Left
003L		2		51500310U0	F.H. Tapped Screw
006L		3		51280406U0	B.H. Tapped Screw B4 x 6
011L	8	8	51100314S9	5106031489	P.H.M. Screw B3 x 14
012L	4	4	51100306A9	51280308B0	B.H.M. Screw B3 x 8
014L	2	2	51100305A9	51280305B0	B.H.M. Screw B3 x 5
024L	4	4	51280308U0	51300310U0	P.H. Tapped Screw Bx 10
025L		4		54020301A0	Flat Washer P
030L		1		209H123010	Contactor
031L		2		51280308U0	B.H. Tapped Screw B3 x 8
033L		1		209H160020	Bracket
034L		6		51280408U0	B.H. Tapped Screw B4 x 8

Original Model Ma-5 Page 14

REF. DESIG.	Q'TY F	Q'TY E	MODEL Ma-5 (F) PART NO.	MODEL Sm-10 (E) PART NO.	DESCRIPTION
001S	1	1	2142801010	209H801010	Packing Case
008S	1		2864804010		Sleeve
013S	4	4	9526019040	9526019060	Serial No. Card
015S		1		ZD00400020	Connective Cord
018S		1		2731821010	Silicagel
019S		1		2918107370	Sheet
101S		1		2882861020	Label
104S		1		2578861010	Label
105S		1		2932861010	Label
001T	1	1	2142851110	209H851310	Instructions
002T	1		9631000110		Guarantee Card
003T	1	1	2976813020	209H856010	Circuit Diagram
004T	1	1	2976851040	2275851370	Instructions
005T	1		965000U030		S. Station Card
006T	1		9013025010		Polyethy Bag

Q701 HC10043050 2SK150

Q702 HT322592F0 2SC2259 For G

Q703 HT322402A0 2SC2240 GR or BL

Q704, Q705, Q711 HT109702A0 2SA970 GR or BL

Q706 HT109701A0 2SA970 GR

Q707 HT322401A0 2SC2240 GR

Q708 HT109491B0 2SA949 Y

Q709 HT322291B0 2SC229 Y

Q710 HT31568I50 2SC1568 S

Q712 HT3181I52A0 2SC1815 O or Y

Q713 HT1101I52A0 2SA1015 O or Y

Q714 HT40757IC0 2SD757 C

Q715 HT20717IC0 2SB717C

Q716 HT322381C0 2SC2238 O

Q717 HT109681C0 2SA968 O

Q718, Q720 HT325642A0 2SC2564 R or O

Q719, Q721 HT1101942A0 2SA1094 R or O

Q722, Q723 HD30025090 WZ150

Q724 ~ Q727, Q731 ~ Q738, Q742 HD20011050 1S1555

Q730 HV00003080 SV-02

Q739, Q740 HD20011010 W06C

Q741 HP00004230 PTH487A(BE)

QN01 HCK042050 TA7317P

QN02 ~ QN05 HD20005010 W06B

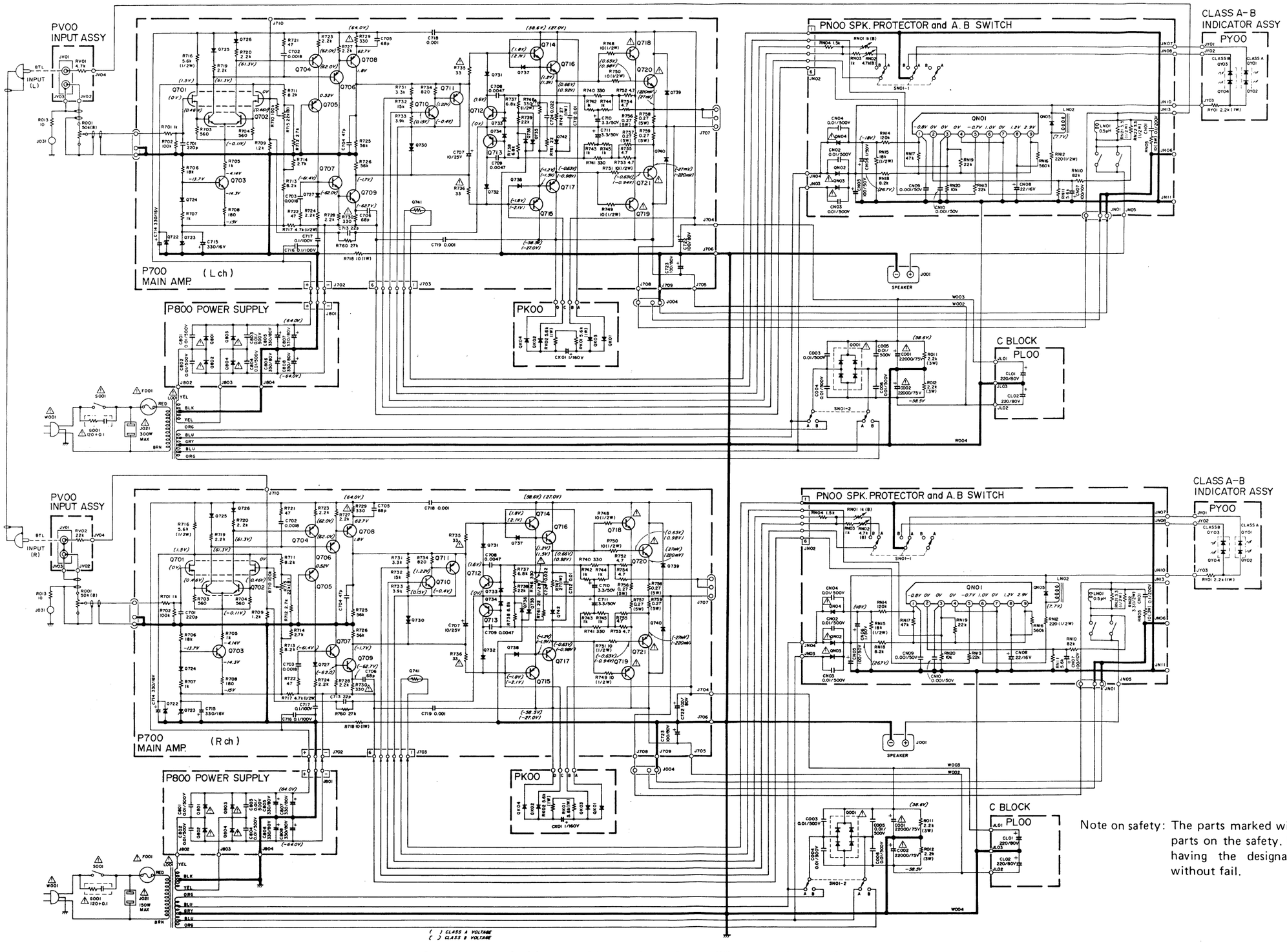
QK01, QK02 HD20010210 IS2471G

QK03, QK04 HD20005010 W06B

QY01 ~ QY04 HI10005320 GL-9H19

Q001 HD20004290 S5VB-20

Q801 Q804 HD20011010 W06C



Note on safety: The parts marked with △ are important parts on the safety. Please use the parts having the designated parts number without fail.

Components and wiring are subject to change for modification without notice.

Model SM-10

Original Model Ma-5 Page 15

REF. DESIG.	Q'TY F	Q'TY E	MODEL Ma-5 (F) PART NO.	MODEL Sm-10 (E) PART NO.	DESCRIPTION
C714	1	1	EA47701630	EA33701640	Elect 330μF 16V
C715	1	1	EA47701630	EA33701640	Elect 330μF 16V
C720	1		DF17474510		Film 0.47μF ±20%
C721	1		DF17474510		Film 0.47μF ±20%
C724		1		DF16223300	Film 0.022μF ±10%
R733	1	1	GD05562140	GD05392140	Resistor 3.9kΩ
R747	1	1	GA05560010	GA05270010	Resistor 27Ω
R761		1		GD05220140	Resistor 22Ω
Q730	1	1	HV00002120	HV00003080	Varistor SV-02

Original Model Ma-5 Page 16

REF. DESIG.	Q'TY F	Q'TY E	MODEL Ma-5 (F) PART NO.	MODEL Sm-10 (E) PART NO.	DESCRIPTION
Q742		1		HD20011050	Diode 1S1555
J701	1		YP06000300		Plug (3P)
J704 ~ J706	3		2142123030		Contactor

Original Model Ma-5 Page 16 (cont.)

REF. DESIG.	Q'TY F	Q'TY E	MODEL Ma-5 (F) PART NO.	MODEL Sm-10 (E) PART NO.	DESCRIPTION
C809	1		DF16105510		Film 1μF ±10%
C810	1		DF16105510		Film 1μF ±10%
CL03	1		DF16105520		Film 1μF ±10%
CL04	1		DF16105520		Film 1μF ±10%
CN09		1		DF15102300	Film 0.001μF ±10%
CN10		1		DF15102300	Film 0.001μF ±10%
RN07	1		GD05153140		Resistor 15kΩ
RN08	1		GD05333140		Resistor 33kΩ
RN14	1	1	GD05153140	GD05124140	Resistor 120kΩ
RN16	1	1	GD05124140	GD05564140	Resistor 560kΩ
RN19	1	1	GD05683140	GD05223140	Resistor 22kΩ

Original Model Ma-5 Page 17

REF. DESIG.	Q'TY F	Q'TY E	MODEL Ma-5 (F) PART NO.	MODEL Sm-10 (E) PART NO.	DESCRIPTION
CV01	1		EQ10601610		Elect 10μF 16V
JV01	1	1	YT02020190	YT02020220	Terminal (2P)
RV01		1		GD05472140	Resistor 4.7kΩ
RV02		1		GD05223140	Resistor 22kΩ
RX00	1		YK21421830		P.W. Board Peck LED
PY00	1	1	YK21421870	WF209H0010	P.W. Board Connector
CY01	1		EA22703530		Elect 220μF 35V
RY01	1	1	GG05100140	GJ05222010	Resistor 2.2kΩ
JY01	1		YP06000360		Plug (6P)
QY01 ~ QY04		4		HI10005320	L.E.D. GL-9HY9
P700		1		YK21421810	P.W. Board Main Amp
		1		ZZ21428810	P.W. Board Assembly
P800		1		YK21421820	P.W. Board Power Supply
		1		ZZ21428820	P.W. Board Assembly
PK00		1		YK21421880	P.W. Board Sub Amp
		1		ZZ21428880	P.W. Board Assembly
PL00		1		YK21421850	P.W. Board Condenser
		1		ZZ21428850	P.W. Board Assembly
PN00		1		YK21421840	P.W. Board SPK Protector
		1		ZZ21428840	P.W. Board Assembly
PV00		1		YK21421860	P.W. Board Input
		1		ZZ21428860	P.W. Board Assembly
PY00		1		WF209H0010	P.W. Board Connector
		1		ZZ209H8010	P.W. Board Assembly